

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

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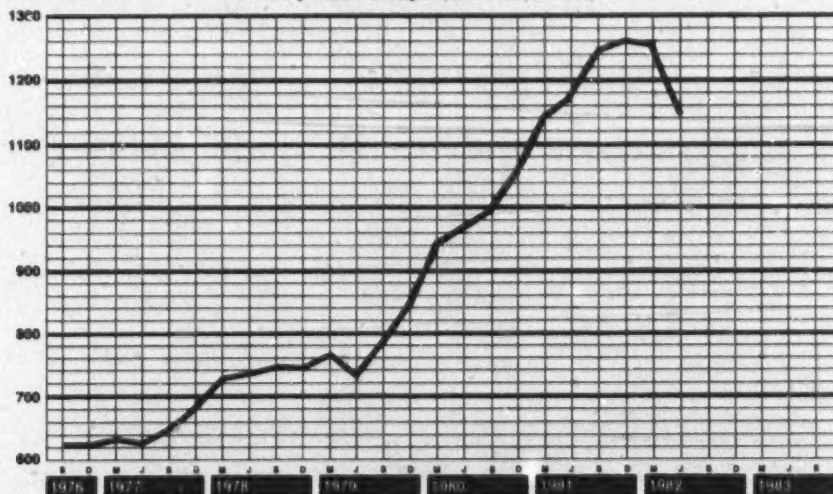
INTERNATIONAL SEISMIC CREW COUNT November 10, 1982

WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL CONTINUES TO DECREASE DURING THE SECOND QUARTER OF 1982

Seismic exploration for oil and gas showed a marked decrease internationally during the second quarter (June) of 1982, with a total of 1,146 seismic land crews and marine vessels active. According to the Society of Exploration Geophysicists, which conducts the quarterly survey, the June total (1,146) reflected a decrease of 120 land crews and an increase of nine marine vessels for a net decrease of 111 from the March, 1982, total of 1,257 crews and vessels. Gains were recorded in Europe, the Middle East, and the Far East.

The international survey reflects data reported on seismic oil exploration activity by 138 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, JUNE, 1982

Geographically, seismic exploration for oil and gas during June, 1982, was reported as follows (first quarter, March, 1982, figures are shown in parentheses):

UNITED STATES			CANADA		
	Land	Marine	Land	Marine	
92 Contractors:	503 (554)	62 (45)	24 (100)	5 (2)	
9 Oil Companies:	43 (43)	7 (7)	4 (4)	0 (0)	
1 Government:	0 (0)	0 (0)			
Totals:	546 (597)	69 (52)	28 (104)	5 (2)	

(OVER)

	MEXICO	
	Land	Marine
5 Contractors:	22 (25)	0 (2)
1 Government:	5* (5)	0* (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	27* (30)	0* (2)

	CENTRAL & SOUTH AMERICA	
	Land	Marine
9 Contractors:	76 (88)	5 (9)
4 Governments:	24* (33)	0* (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	100* (121)	5* (9)

	EUROPE	
	Land	Marine
17 Contractors:	67* (56)*	34* (30)
2 Governments:	8 (0)	1 (0)
2 Oil Companies:	4 (4)	0 (0)
Totals:	79* (60)*	35* (30)

	MIDDLE EAST	
	Land	Marine
10 Contractors:	46 (39)	0 (6)
1 Government:	2 (2)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	48 (41)	0 (6)

	AFRICA	
	Land	Marine
11 Contractors:	61 (62)	4 (7)
0 Government:	0 (0)	0 (0)
1 Oil Company:	11* (11)*	0* (0)
Totals:	72* (73)*	4* (7)

	FAR EAST	
	Land	Marine
12 Contractors:	76 (69)	12 (13)
5 Governments:	33 (33)	3 (3)
1 Oil Company:	3 (4)	1 (1)
Totals:	112 (106)	16 (17)

JUNE TOTALS:

United States:
Canada:
Mexico:
Central & South America:
Europe:
Middle East:
Africa:
Far East:

Land Crews	Marine Vessels
546 (597)	69 (52)
28 (104)	5 (2)
27* (30)	0* (2)
100* (121)	5* (9)
79* (60)*	35* (30)
48 (41)	0 (6)
72* (73)*	4* (7)
112 (106)	16 (17)

Totals:

1,012* (1,132)* 134* (125)

Total Crews and Vessels:

1,146* (1,257)*

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

SEG's International Seismic Crew Count is financed by a grant from the International Association of Geophysical Contractors.

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Society of Exploration Geophysicists

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February 7, 1983

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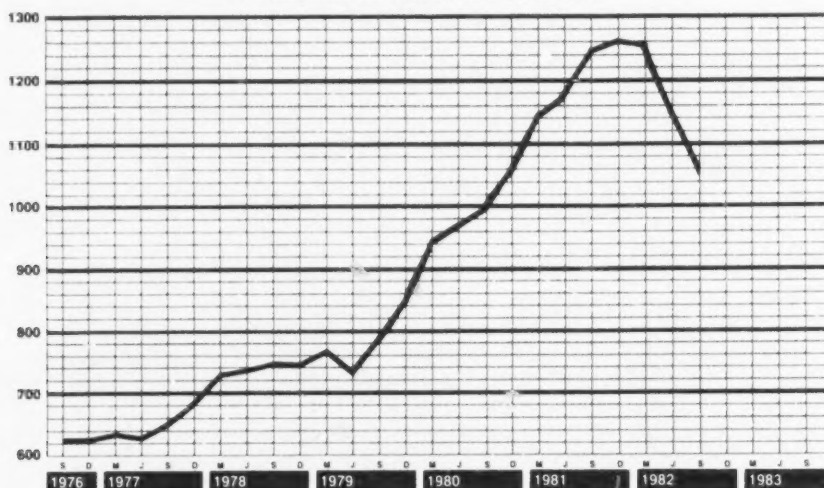
INTERNATIONAL SEISMIC CREW COUNT

WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL
SHOWS ANOTHER SIGNIFICANT DECREASE DURING THE THIRD QUARTER OF 1982

Seismic exploration for oil and gas continued to decrease during the third quarter (September) of 1982, with a total of 1,053 seismic land crews and marine vessels active. According to the Society of Exploration Geophysicists, which conducts the quarterly survey, the September total (1,053) reflected a decrease of ninety-one land crews and two marine vessels for a net decrease of ninety-three from the June, 1982, total of 1,146 crews and vessels. Gains were reported in Canada and Africa.

The international survey reflects data reported on seismic oil exploration activity by 136 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity worldwide)



INTERNATIONAL SEISMIC CREW COUNT, SEPTEMBER, 1982

Geographically, seismic exploration for oil and gas during September, 1982, was reported as follows (second quarter, June, 1982, figures are shown in parentheses):

UNITED STATES			CANADA		
	Land	Marine		Land	Marine
84 Contractors:	434 (503)	50 (62)	22 Contractors:	35 (24)	7 (5)
10 Oil Companies:	42 (43)	8 (7)	3 Oil Companies:	4 (4)	0 (0)
1 Government:	0 (0)	1 (0)			
Totals:	476 (546)	59 (69)	Totals:	39 (28)	7 (5)

(OVER)



	MEXICO	
	Land	Marine
5 Contractors:	21 (22)	0 (0)
1 Government:	5 (5)*	0 (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	26 (27)*	0 (0)*

	CENTRAL & SOUTH AMERICA	
	Land	Marine
10 Contractors:	63 (76)	7 (5)
4 Governments:	23* (24)*	0* (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	86* (100)*	7* (5)*

	EUROPE	
	Land	Marine
19 Contractors:	66 (67)*	33 (34)*
2 Governments:	9 (8)	1 (1)
2 Oil Companies:	4 (4)	0 (0)
Totals:	79 (79)*	34 (35)*

	MIDDLE EAST	
	Land	Marine
13 Contractors:	40 (46)	3 (0)
1 Government:	2 (2)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	42 (48)	3 (0)

	AFRICA	
	Land	Marine
13 Contractors:	60 (61)	6 (4)
0 Government:	0 (0)	0 (0)
1 Oil Company:	11* (11)*	0* (0)*
Totals:	71* (72)*	6* (4)*

	FAR EAST	
	Land	Marine
14 Contractors:	65 (76)	13 (12)
4 Governments:	34 (33)	2 (3)
1 Oil Company:	3 (3)	1 (1)
Totals:	102 (112)	16 (16)

SEPTEMBER TOTALS:

	Land Crews	Marine Vessels
United States:	476 (546)	59 (69)
Canada:	39 (28)	7 (5)
Mexico:	26 (27)*	0 (0)*
Central & South America:	86* (100)*	7* (5)*
Europe:	79 (79)*	34 (35)*
Middle East:	42 (48)	3 (0)
Africa:	71* (72)*	6* (4)*
Far East:	102 (112)	16 (16)
Totals:	921* (1,012)*	132* (134)*
<u>Total Crews and Vessels:</u>	1,053* (1,146)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

SEG's International Seismic Crew Count is financed by a grant from the International Association of Geophysical Contractors.

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A8912-2 7/1/83

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INTERNATIONAL SEISMIC CREW COUNT

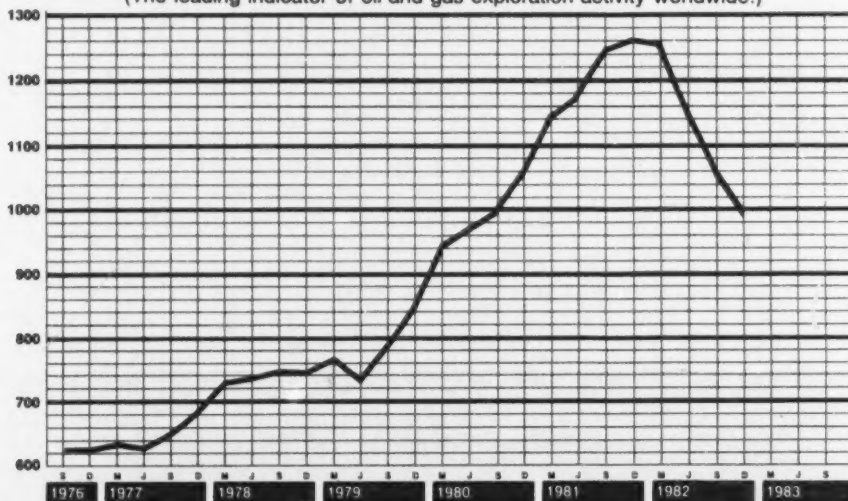
WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL CONTINUED TO DECREASE DURING THE FOURTH QUARTER OF 1982

Seismic exploration for oil and gas continued to decrease during the fourth quarter (December) of 1982, with a total of 953 seismic land crews and marine vessels active. According to the Society of Exploration Geophysicists, which conducts the quarterly survey, the December total (953) reflected a decrease of forty-six land crews and twenty-four marine vessels for a net decrease of seventy crews from the September, 1982, total of 1,053 crews and vessels. Gains were reported in Canada and Mexico.

The international survey reflects data reported on seismic oil exploration activity by 118 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, DECEMBER, 1982

Geographically, seismic exploration for oil and gas during December, 1982, was reported as follows (third quarter, September, 1982, figures are shown in parentheses):

UNITED STATES			CANADA		
	Land	Marine		Land	Marine
83 Contractors:	386 (434)	42 (50)	26 Contractors:	76 (35)	4 (7)
10 Oil Companies:	42 (42)	7 (8)	3 Oil Companies:	4 (4)	0 (0)
1 Government:	0 (0)	0 (1)			
Totals:	428 (476)	49 (59)	Totals:	80 (39)	4 (7)

(OVER)



	MEXICO	
	Land	Marine
6 Contractors:	28 (21)	2 (0)
1 Government:	5 (5)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	33 (26)	2 (0)

	EUROPE	
	Land	Marine
17 Contractors:	49 (66)	23 (33)
1 Government:	4 (9)	1 (1)
2 Oil Companies:	4 (4)	0 (0)
Totals:	57 (79)	24 (34)

	AFRICA	
	Land	Marine
12 Contractors:	51 (60)	6 (6)
0 Government:	0* (0)	0* (0)
1 Oil Company:	11* (11)*	0* (0)*
Totals:	62* (71)*	6* (6)*

	CENTRAL & SOUTH AMERICA	
	Land	Marine
10 Contractors:	63 (63)	8 (7)
4 Governments:	22 (23)*	0 (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	85 (86)*	8 (7)*

	MIDDLE EAST	
	Land	Marine
11 Contractors:	38 (40)	2 (3)
1 Government:	2 (2)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	40 (42)	2 (3)

	FAR EAST	
	Land	Marine
12 Contractors:	55 (65)	10 (13)
4 Governments:	32* (34)	2* (2)
1 Oil Company:	3 (3)	1 (1)
Totals:	90* (102)	13* (16)

DECEMBER TOTALS:

	Land Crews	Marine Vessels
United States:	428 (476)	49 (59)
Canada:	80 (39)	4 (7)
Mexico:	33 (26)	2 (0)
Central & South America:	85 (86)*	8 (7)*
Europe:	57 (79)	24 (34)
Middle East:	40 (42)	2 (3)
Africa:	62* (71)*	6* (6)*
Far East:	90* (102)	13* (16)
Totals:	875* (921)*	108* (132)*
<u>Total Crews and Vessels:</u>	983* (1,053)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

SEG's International Seismic Crew Count is financed by a grant from the International Association of Geophysical Contractors.

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INTERNATIONAL SEISMIC CREW COUNT

July 7, 1983

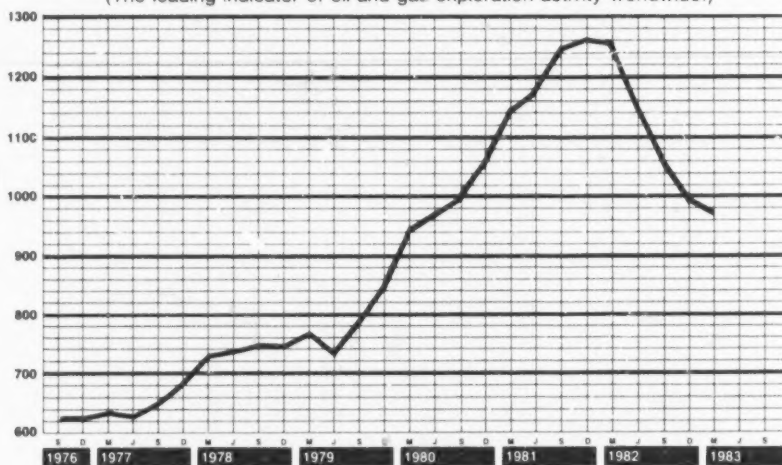
WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL CONTINUED TO DECREASE DURING THE FIRST QUARTER OF 1983

Seismic exploration for oil and gas continued to decrease during the first quarter (March) of 1983, with a total of 968 seismic land crews and marine vessels active. According to the Society of Exploration Geophysicists, which conducts the quarterly survey, the March total (968) reflected a decrease of two land crews and thirteen marine vessels for a net decrease of fifteen crews from the December, 1982, total of 983 crews and vessels. Gains were reported in Canada, Central and South America, and Africa.

The International survey reflects data reported on seismic oil exploration activity by 115 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, MARCH, 1983

Geographically, seismic exploration for oil and gas during March, 1983, was reported as follows (fourth quarter, December, 1982, figures are shown in parentheses):

UNITED STATES			CANADA		
	Land	Marine	Land	Marine	
76 Contractors:	360 (386)	38 (42)	25 Contractors:	95 (76)	5 (4)
10 Oil Companies:	42 (42)	7 (7)	3 Oil Companies:	4 (4)	0 (0)
1 Government:	0 (0)	0 (0)			
Totals:	402 (428)	45 (49)	Totals:	99 (80)	5 (4)

(OVER)



	MEXICO	
	Land	Marine
6 Contractors:	21*(28)	2*(2)
1 Government:	5*(5)	0*(0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	26*(33)	2*(2)

	CENTRAL & SOUTH AMERICA	
	Land	Marine
10 Contractors:	57*(63)	4*(8)
4 Governments:	33*(22)	0*(0)
1 Oil Companies:	2 (0)	0 (0)
Totals:	92*(85)	4*(8)

	EUROPE	
	Land	Marine
19 Contractors:	57*(49)	15*(23)
1 Government:	2 (4)	0 (1)
2 Oil Companies:	4 (4)	0 (0)
Totals:	63*(57)	15*(24)

	MIDDLE EAST	
	Land	Marine
12 Contractors:	37 (38)	2 (2)
1 Government:	2 (2)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	39 (40)	2 (2)

	AFRICA	
	Land	Marine
14 Contractors:	50*(51)	14*(6)
0 Government:	0*(0)*	0*(0)*
1 Oil Company:	11*(11)*	0*(0)*
Totals:	61*(62)*	14*(6)*

	FAR EAST	
	Land	Marine
13 Contractors:	55 (55)	7 (10)
3 Governments:	33*(32)*	1*(2)*
3 Oil Companies:	3 (3)	0 (1)
Totals:	91*(90)*	8*(13)*

MARCH TOTALS:

	Land Crews	Marine Vessels
United States:	402 (428)	45 (49)
Canada:	99 (80)	5 (4)
Mexico:	26* (33)	2* (2)
Central & South America:	92* (85)	4* (8)
Europe:	63* (57)	15* (24)
Middle East:	39 (40)	2 (2)
Africa:	61* (62)*	14* (6)*
Far East:	91* (90)*	8* (13)*
Totals:	873* (875)*	95* (108)*
<u>Total Crews and Vessels:</u>	968* (983)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

SEG's International Seismic Crew Count is financed by a grant from the International Association of Geophysical Contractors.

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10/24/83
A 8912-2

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

October 12, 1983

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INTERNATIONAL SEISMIC CREW COUNT

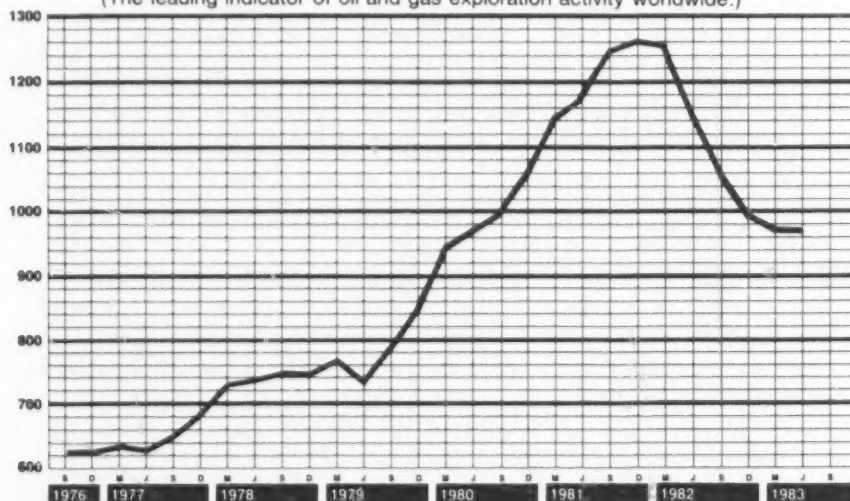
WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL
REMAINED STABLE DURING THE SECOND QUARTER OF 1983

Seismic exploration for oil and gas remained stable during the second quarter (June) of 1983, with a total of 967 seismic land crews and marine vessels active. According to the Society of Exploration Geophysicists, which conducts the quarterly survey, the June total (967) reflected a decrease of twenty-one land crews and an increase of twenty marine vessels for a net decrease of only one crew from the March, 1983, total of 968 crews and vessels. Gains were reported in the United States, Mexico, Europe, and the Far East.

The International survey reflects data reported on seismic oil exploration activity by 120 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity worldwide.)



INTERNATIONAL SEISMIC CREW COUNT, JUNE, 1983

Geographically, seismic exploration for oil and gas during June, 1983, was reported as follows (first quarter, March, 1983, figures are shown in parentheses):

UNITED STATES			CANADA		
	Land	Marine	Land	Marine	
81 Contractors:	387 (360)	37 (38)	24 Contractors:	42 (95)	7 (5)
10 Oil Companies:	41 (42)	6 (7)	3 Oil Companies:	4 (4)	0 (0)
1 Government:	0 (0)	0 (0)			
Totals:	428 (402)	43 (45)	Totals:	46 (99)	7 (5)

(OVER)



	MEXICO	
	Land	Marine
6 Contractors:	23*(21)*	1*(2)*
1 Government:	5 (5)*	0 (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	28*(26)*	1*(2)*

	EUROPE	
	Land	Marine
14 Contractors:	63 (57)*	30 (15)*
2 Governments:	8 (2)	0 (0)
2 Oil Companies:	4 (4)	0 (0)
Totals:	75 (63)*	30 (15)*

	AFRICA	
	Land	Marine
10 Contractors:	50 (50)*	8 (14)*
0 Government:	0 (0)*	0 (0)*
2 Oil Companies:	12*(11)*	2*(0)*
Totals:	62*(61)*	10*(14)*

	CENTRAL & SOUTH AMERICA	
	Land	Marine
9 Contractors:	50 (57)*	5 (4)*
4 Governments:	33 (33)*	0 (0)*
0 Oil Companies:	0 (2)	0 (0)
Totals:	83 (92)*	5 (4)*

	MIDDLE EAST	
	Land	Marine
8 Contractors:	29 (37)	1 (2)
1 Government:	2 (2)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	31 (39)	1 (2)

	FAR EAST	
	Land	Marine
11 Contractors:	59 (55)	16 (7)
3 Governments:	36 (33)*	1 (1)*
1 Oil Company:	4 (3)	1 (0)
Totals:	99 (91)*	18 (8)*

JUNE TOTALS:

	Land Crews	Marine Vessels
United States:	428 (402)	43 (45)
Canada:	46 (93)	7 (5)
Mexico:	28* (26)*	1* (2)*
Central & South America:	83 (92)*	5 (4)*
Europe:	75 (63)*	30 (15)*
Middle East:	31 (39)	1 (2)
Africa:	62* (61)*	10* (14)*
Far East:	99 (91)*	18 (8)*
Totals:	852* (873)*	115* (95)*
<u>Total Crews and Vessels:</u>	967* (968)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

SEG's International Seismic Crew Count is financed by a grant from the International Association of Geophysical Contractors.

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